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JUN 12 2001

TECH CENTER 1600/2900

1644

RAW SEQUENCE LISTING

DATE: 05/23/2001

PATENT APPLICATION: US/09/470,494A

TIME: 12:36:29

Input Set : A:\I2777007.txt

Output Set: C:\CRF3\05232001\I470494A.raw

P. Gombel

C--> 4 <110> APPLICANT: Newell, Martha Karen
5 Wagner, David H.
6 Newell, Evan
8 <120> TITLE OF INVENTION: Use of CD40 Engagement to Alter T Cell
9 Receptor Usage
11 <130> FILE REFERENCE: I0277/7007/HCL/KA
13 <140> CURRENT APPLICATION NUMBER: US/09/470,494A
14 <141> CURRENT FILING DATE: 1999-12-22
16 <150> PRIOR APPLICATION NUMBER: U.S. 60/114,106
17 <151> PRIOR FILING DATE: 1998-12-29
19 <160> NUMBER OF SEQ ID NOS: 2
21 <170> SOFTWARE: FastSEQ for Windows Version 3.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 1816
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo Sapiens
28 <400> SEQUENCE: 1

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31	cttactgttt	ttcttatcac	ccagatgatt	gggtcagcac	tttttgctgt	gtatcttcat	180
32	agaagggttg	acaagataga	agatgaaagg	aatcttcatg	aagattttgt	attcatgaaa	240
33	acgatacaga	gatgcaacac	aggagaaaga	tccttatcct	tactgaactg	tgaggagatt	300
34	aaaagccagt	ttgaaggctt	tgtgaaggat	ataatgttaa	acaaagagga	gacgaagaaa	360
35	gaaaacagct	ttgaaatgca	aaaagggtgat	cagaatcctc	aaattgcggc	acatgtcata	420
36	agtgaggcca	gcagtaaaac	aacatctgtg	ttacagtggg	ctgaaaaagg	atactacacc	480
37	atgagcaaca	acttggtaac	cctggaaaat	gggaaacagc	tgaccgttaa	aagacaagga	540
38	ctctattata	tctatgccca	agtcaccttc	tgttccaatc	gggaagcttc	gagtcaagct	600
39	ccatttatag	ccagcctctg	cctaaagtcc	cccggtagat	tgcagagaa	cttactcaga	660
40	gctgcaaata	cccacagttc	cgccaaacct	tgcgggcaac	aatccattca	cttgggagga	720
41	gtatttgaat	tgcaaccagg	tgcttcgggt	tttgtcaatg	tgactgatcc	aagccaagtg	780
42	agccatggca	ctggcttcac	gtcctttggc	ttactcaaac	tctgaacagt	gtcaccttgc	840
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45	actccaaggc	atgtagaact	gtaataagtg	aattacaggt	cacatgaaac	caaaacgggc	1020
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47	agtcctatga	aaagacaagg	ccattatgca	cagggttgaat	tctgagtaaa	cagcagataa	1140
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51	agaaccgaaa	cccccccccc	cccccccgcc	accctctcgg	acagttattc	attctctttc	1380
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57	cccactcttc	attacgaaat	gactgtat	aaaggaaatc	tattgtatct	acctgcagtc	1740
58	tccattgttt	ccagagtga	cttgtaatta	tcttgttatt	tattttttga	ataataaaga	1800

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59 cctcttaaca ttaaaa
61 <210> SEQ ID NO: 2
62 <211> LENGTH: 261
63 <212> TYPE: PRT
64 <213> ORGANISM: Homo Sapiens
66 <400> SEQUENCE: 2
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68 1 5 10 15
69 Leu Pro Ile Ser Met Lys Ile Phe Met Tyr Leu Leu Thr Val Phe Leu
70 20 25 30
71 Ile Thr Gln Met Ile Gly Ser Ala Leu Phe Ala Val Tyr Leu His Arg
72 35 40 45
73 Arg Leu Asp Lys Ile Glu Asp Glu Arg Asn Leu His Glu Asp Phe Val
74 50 55 60
75 Phe Met Lys Thr Ile Gln Arg Cys Asn Thr Gly Glu Arg Ser Leu Ser
76 65 70 75 80
77 Leu Leu Asn Cys Glu Glu Ile Lys Ser Gln Phe Glu Gly Phe Val Lys
78 85 90 95
79 Asp Ile Met Leu Asn Lys Glu Glu Thr Lys Lys Glu Asn Ser Phe Glu
80 100 105 110
81 Met Gln Lys Gly Asp Gln Asn Pro Gln Ile Ala Ala His Val Ile Ser
82 115 120 125
83 Glu Ala Ser Ser Lys Thr Thr Ser Val Leu Gln Trp Ala Glu Lys Gly
84 130 135 140
85 Tyr Tyr Thr Met Ser Asn Asn Leu Val Thr Leu Glu Asn Gly Lys Gln
86 145 150 155 160
87 Leu Thr Val Lys Arg Gln Gly Leu Tyr Tyr Ile Tyr Ala Gln Val Thr
88 165 170 175
89 Phe Cys Ser Asn Arg Glu Ala Ser Ser Gln Ala Pro Phe Ile Ala Ser
90 180 185 190
91 Leu Cys Leu Lys Ser Pro Gly Arg Phe Glu Arg Ile Leu Leu Arg Ala
92 195 200 205
93 Ala Asn Thr His Ser Ser Ala Lys Pro Cys Gly Gln Gln Ser Ile His
94 210 215 220
95 Leu Gly Gly Val Phe Glu Leu Gln Pro Gly Ala Ser Val Phe Val Asn
96 225 230 235 240
97 Val Thr Asp Pro Ser Gln Val Ser His Gly Thr Gly Phe Thr Ser Phe
98 245 250 255
99 Gly Leu Leu Lys Leu
100 260

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1816

VERIFICATION SUMMARY

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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number